

# THE UNITED SHAYES OF AMERICA

TO ALL TO WHOM THESE; PRESENTS SHALL COME;

Aphas Regetable Seed Co., Inc.

ALCCERS, THERE HAS BEEN PRESENTED TO THE

# Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR CORTING IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE PURPOSES, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT OR BY THE PLANT VARIETY PROTECTION ACT. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

#### **LETTUCE**

'Quest'

In Testimone Marrest, I have hereunto set my hand and caused the seal of the Plant Pariety Frotestion Office to be affixed at the City of Washington, D.C. this fifth day of June, in the year two thousand and eight.

Attests

Be-zu

Commissioner
Plant Variety Protection Office
Agricultural Marketing Service

money - Xehan

Secreu Luliur

REPRODUCE LOCALLY. Include form number and	i date on all reprod	uctions		Form Approved - OMB No. 0581-0055			
AGRICULTURA	IENT OF AGRICUL	RVICE	The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 1995.				
SCIENCE AND TECHNOLOGY  APPLICATION FOR PLANT	ARIETY PROTECT	TION CERTIFICATE	Application is required in order to dete (7 U.S.C. 2421). Information is held of	ermine if a plant variety protection certificate is to be issued confidential until certificate is issued (7 U.S.C. 2426).			
(Instructions and information 1. NAME OF OWNER	collection burden sta	tement on reverse)					
Pybas Vegetable Seed C	ompany, I	nc.	2. TEMPORARY DESIGNATION OR EXPERIMENTAL NAME PYB 3702	3. VARIETY NAME Quest			
4. ADDRESS (Street and No., or R.F.D. No., Cit	ty, State, and ZIP Co	ode, and Country)	5. TELEPHONE (include area code)	FOR OFFICIAL USE ONLY			
2330 A. Street, Unit B		•	(805) 922-4624	PVPO NUMBER			
Santa Maria, CA 93455			6. FAX (include area code)	<b>  #200700155 </b>			
			(805) 928-0293	FILING DATE			
<ol> <li>IF THE OWNER NAMED IS NOT A "PERSON ORGANIZATION (corporation, partnership, as</li> </ol>	I", GIVE FORM OF sociation, etc.)	8. IF INCORPORATED, GIVE STATE OF INCORPORATION	9. DATE OF INCORPORATION				
Corporation		California	12-16-1983	FEBRUARY 23, 2007			
10. NAME AND ADDRESS OF OWNER REPRE 3) 3) 30 08 Shawna Bustrey or Keith				F FILING AND EXAMINATION FEES:  E \$ 4.382.00  R DATE 2/23/07			
2330 A Street, Unit B		·······································		C CERTIFICATION FEE:			
Santa Maria, CA 93455				\$ 160			
				D DATE 4/4/08			
11. TELEPHONE (Include area code) 05) 922-4624	(305)	do area code) 928 -0293	13. E-MAIL <del>sbushey</del> @pybass	eeds.com EricVotava 3			
14. CROP KIND (Common Name)	16. FAMILY N	AME (Botanical)	i .	TAIN ANY TRANSGENES? (OPTIONAL)			
ettuce	Astera	Cea	☐ YES 💆 NO				
15. GENUS AND SPECIES NAME OF CROP Lactuca sativa		RIETY A FIRST GENERATION HYBR	APPROVED PETITION TO	ASSIGNED USDA-APHIS REFERENCE NUMBER FOR THE DEREGULATE THE GENETICALLY MODIFIED PLANT FOR			
19. CHECK APPROPRIATE BOX FOR EACH AT			COMMERICALIZATION.	FY THAT SEED OF THIS VARIETY BE SOLD AS A CLASS			
(Follow instructions on reverse)			OF CERTIFIED SEED? (Se	ee Section 83(a) of the Plant Variety Protection Act)			
<ul> <li>a.  \( \mathbb{E}\) Exhibit A. Origin and Breeding Histo</li> <li>b.  \( \mathbb{E}\) Exhibit B. Statement of Distinctness</li> </ul>	•			r items 21 and 22 below) NO (if "no", go to item 23) FY THAT SEED OF THIS VARIETY BE LIMITED AS TO			
c. 🗷 Exhibit C. Objective Description of V			NUMBER OF CLASSES?				
d. 🗷 Exhibit D. Additional Description of t	he Variety (Optional	)	IF YES, WHICH CLASSES? ☐ FOUNDATION ☐ REGISTERED ☐ CERTIFIED				
e. 🔼 Exhibit E. Statement of the Basis of	the Owner's Owners	ship	22. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS?				
f. Exhibit F. Declaration Regarding De	pasit		☐ YES ☐ NO	<b>10</b> :			
g. X Voucher Sample (3,000 viable untre that tissue culture will be deposited a	ated seeds or, for tu and maintained in an	ber propagated varieties, verification	IF YES, SPECIFY THE NUMBER 1,2,3, etc. FOR EACH CLASS.				
g. X Filing and Examination Fee (\$4.382).	made payable to "T		☐ FOUNDATION ☐ R	EGISTERED CERTIFIED			
States" (Mail to the Plant Variety Proj 23. HAS THE VARIETY (INCLUDING ANY HARV		OR A HYBRID PRODITIOED		ecessary, please use the space indicated on the reverse.)			
FROM THIS VARIETY BEEN SOLD, DISPOS OTHER COUNTRIES?	ED OF, TRANSFER	RRED, OR USED IN THE U. S. OR	INTELLECTUAL PROPERT	Y RIGHT (PLANT BREEDER'S RIGHT OR PATENT)?			
YS YES □ NO			□ YES 🍂 NO				
IF YES, YOU MUST PROVIDE THE DATE OF FOR EACH COUNTRY AND THE CIRCUMS	F FIRST SALE, DIS TANCES. <i>(Please ι</i>	POSITION, TRANSFER, OR USE ise space indicated on reverse.)	IF YES, PLEASE GIVE COUN REFERENCE NUMBER. (Pie	NTRY, DATE OF FILING OR ISSUANCE AND ASSIGNED ease use space indicated on reverse.)			
for a tuber propagated variety a tissue culture	e will be deposited in If this sexually repro	<ul> <li>a public repository and maintained for duced or tuber propagated plant variety</li> </ul>	r the duration of the certificate.	accordance with such regulations as may be applicable, or istinct, uniform, and stable as required in Section 42, and is			
Owner(s) is (are) informed that false represen		•	ies,				
SIGNATURE OF OWNER	/		SIGNATURE OF OWNER				
NAME (Please print or type)	pas		NAME (Please print or type)				
Robert E. Pybas							
CAPACITY OR TITLE	DATE		CAPACITY OR TITLE	DATE			
President	Q=	19/07					

GENERAL INSTRUCTIONS: To be effectively filed with the Plant Variety Protection Office (PVPO), ALL of the following items must be received in the PVPO: (1) Completed application form signed by the owner; (2) completed exhibits A, B, C, E, F; (3) for a tuber reproduced variety, verification that a viable (in the sense that it will reproduce an entire plant) tissue culture will be deposited and maintained in an approved public repository; and (4) payment by credit card or check drawn on a U.S. bank for \$4,382 (\$518 filing fee and \$3,864 examination fee), payable to "Treasurer of the United States" (See Section 97.6 of the Regulations and Rules of Practice). NEW: With the application for a seed reproduced variety or by direct deposit soon after filing, the applicant must provide at least 3,000 viable untreated seeds of the variety per se, and for a hybrid variety at least 3,000 untreated seeds of each line necessary to reproduce the variety. Partial applications will be held in the PVPO for not more than 90 days; then returned to the applicant as un-filed. Mail application and other requirements to Plant Variety Protection Office, AMS, USDA, Room 401, NAL Building, 10301 Baltimore Avenue, Beltsville, MD 20705-2351. Retain one copy for your files. All items on the face of the application are self explanatory unless noted below. Corrections on the application form and exhibits must be initialed and dated. DO NOT use masking materials to make corrections. If a certificate is allowed, you will be requested to send a payment by credit card or check payable to "Treasurer of the United States" in the amount of \$768 for issuance of the certificate. Certificates will be issued to owner, not licensee or agent.

**NOTES:** It is the responsibility of the applicant/owner to keep the PVPO informed of any changes of address or change of ownership or assignment or owner's representative during the life of the application/certificate. The fees for filing a change of address; owner's representative; ownership or assignment; or any modification of owner's name is specified in Section 97.175 of the regulations. (See Section 101 of the Act, and Sections 97.130, 97.131, 97.175(h) of the Regulations and Rules of Practice.)

**Plant Variety Protection Office** 

Telephone: (301) 504-5518

FAX: (301) 504-5291

#200700155

General E-mail: PVPOmail@usda.gov Homepage: http://www.ams.usda.gov/science/pvpo/PVPindex.htm

#### SPECIFIC INSTRUCTIONS:

To avoid conflict with other variety names in use, the applicant must check the appropriate recognized authority and **provide evidence** that the permanent name of the application variety (even if it is a parental, inbred line) has been cleared by the appropriate recognized authority before the Certificate of Protection is issued. For example, for agricultural and vegetable crops, contact: U.S. Department of Agriculture, Agricultural Marketing Service, Livestock and Seed Programs, **Seed Regulatory and Testing Branch**, 801 Summit Crossing Place, Suite C, Gastonia, North Carolina 28054-2193 Telephone: (704) 810-8870. http://www.ams.usda.gov/isg/seed.htm.

#### ITEM

19a. Give:

- (1) the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method;
- (2) the details of subsequent stages of selection and multiplication;
- (3) evidence of uniformity and stability; and
- (4) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified
- 19b. Give a summary of the variety's distinctness. Clearly state how this application variety may be distinguished from all other varieties in the same crop. If the new variety is most similar to one variety or a group of related varieties:
  - (1) identify these varieties and state all differences objectively;
  - (2) attach replicated statistical data for characters expressed numerically and demonstrate that these are clear differences, and
  - (3) submit, if helpful, seed and plant specimens or photographs (prints) of seed and plant comparisons which clearly indicate distinctness.

19c. Exhibit C forms are available from the PVPO Office for most crops; specify crop kind. Fill in Exhibit C (Objective Description of Variety) form as completely as possible to describe your variety.

- 19d. Optional additional characteristics and/or photographs. Describe any additional characteristics that cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the characteristics that are difficult to describe, such as plant habit, plant color, disease resistance, etc.
- 19e. Section 52(5) of the Act requires applicants to furnish a statement of the basis of the applicant's ownership. An Exhibit E form is available from the PVPO.
- 20. If "Yes" is specified (seed of this variety be sold by variety name only, as a class of certified seed), the applicant MAY NOT reverse this affirmative decision after the variety has been sold and so labeled, the decision published, or the certificate issued. However, if "No" has been specified, the applicant may change the choice. (See Regulations and Rules of Practice, Section 97.103).
- 23. See Sections 41, 42, and 43 of the Act and Section 97.5 of the regulations for eligibility requirements.
- 24. See Section 55 of the Act for instructions on claiming the benefit of an earlier filing date.
- 22. CONTINUED FROM FRONT (Please provide a statement as to the limitation and sequence of generations that may be certified.)

23. CONTINUED FROM FRONT (Please provide the date of first sale, disposition, transfer, or use for each country and the circumstances, if the variety (including any harvested material) or a hybrid produced from this variety has been sold, disposed of, transferred, or used in the U.S. or other countries.)

DATE of first sale of sced of Quest in U.S.; 3-2-06. We market our seed products unclusively through a declar network and assigned reference number, if the variety or any component of the variety is protected by intellectual property right (Plant Breeder's Right or Patent).)

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 1.4 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

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To file a complaint of discrimination, write to USDA, Director, Office of Civil Rights, 1400 Independence Avenue, S.W., Washington, D.C. 20250-9410, or cell (800) 795-3272 (voice) or (202) 720-6382 (TDD). USDA is an equal opportunity provider and employer.

# Exhibit A Origin and Breeding History 'Quest' (PYB 3702)

The iceberg lettuce variety 'Quest' (PYB 3702) was derived from the cross 'Fallgreen' x PYB 4601 made in the summer of 1998. It was developed using the pedigree breeding method.

'Fallgreen' is a variety used for production in the desert southwest. It was released in 1990 by Ferry Morse Seed Co. and is the product of a cross 'Emporer' x 'Winterhaven' (Personal communication with Dr. George Emery, retired plant breeder).

The breeding history of 'Quest' is diagramed in Figure 1. PYB 4601 was was derived from the cross ('Glacier' x Pybas 251) x UC 205. 'Glacier' was a corky root resistant variety released by the USDA in 1991 and was derived from the cross 'Green Lake' x 'Salinas'. Pybas 251 was a selection from the variety 'El Toro', and UC 205 was a downy mildew resistant breeding line from the cross 'Calmar' x 'Solito' released by the University of California, Davis in 1993.

F2 seed of the 'Fallgreen' x PYB 4601 cross was produced in the San Joaquin Valley in 1999 and was trailed near Santa Maria, California in the summer of 2000. The F2 population was quite variable with most plants maturing early with small tight heads that resisted cracking. Most plants had a lack of good head protection from the outer frame leaves. A few plants with large solid heads had somewhat better head protection. Several of these larger heading types were selected and selfed to produce F3 seed.

The F3 seed was trailed near Santa Maria in the summer of 2001 in a field heavily infested with the corky root bacterium. By pulling and observing the roots of a large number of plants, one of these lines was determined to be homozygous resistant to corky root. The line was large heading and very early maturing. Head shape was somewhat variable ranging from round to flat. Six single plants were saved from this line and F4 seed was produced. Selection was based on round head shape, protection of the head by the outer leaves, and lack of tipburn.

The F4 seed was planted in a trial in 2002 near the same location as the previous two years. All six lines were observed to be resistant to corky root and all retained the essential characteristics of large head size with early maturity observed in preceding generations. There were slight differences between the sisters for head protection. Five plants were selected from the single line judged to have the best uniformity and the best head protection.

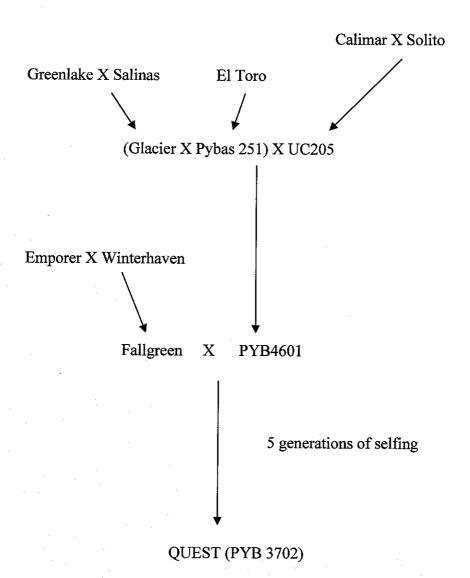
The F5 seed from these selections were trailed near Guadalupe, California in the summer of 2003. There was good uniformity within and between all the lines. Six ideal F5 plants were selected and selfed to produce F6 seed later that season.

The F6 plants were trailed in the summer 2004 again near Guadalupe, and they were also planted in our commercial seed production area near Buttonwillow, California. In the Guadalupe trial, the F6 plants exhibited the same high level of uniformity observed the previous generation. Consequently, the seed from all of the plants grown in Buttonwillow was harvested in bulk (F7). The line was designated PYB 3702.

The F7 bulk lot was trailed in numerous locations in 2005 and 2006. The plants were uniform. The bulked F7 seed was used for stock seed for commercial increases in the San Joaquin Valley in 2005 and 2006 and in Australia in 2006.

'Quest' has been uniform and stable for the last three generations of its development and no off types or variants have been observed.

FIGURE 1. Breeding history of QUEST



# EXHIBIT B Statement of Distinctness For

'Quest' (PYB 3702)

'Quest' (PYB 3702) is a large heading, unusually fast maturing, corky root resistant iceberg lettuce variety particularly well suited for bulk production in the late spring through mid summer harvest periods in the coastal valleys of California.

'Quest' is most similar to the corky root resistant variety 'Telluride' (PVP 200300168). It differs from 'Telluride', however, in that 'Quest' has a greater head weight (641 gms. Vs 517 gms.), a larger head diameter (13.3 cm. VS 12.7 cm.), and a longer core height (49.4 mm. VS 40 mm.). These figures are the overall means of those characteristics significant in Trials 1 and 2 (Table 1) and reported in Table 3.

In its reproductive phase the mature seeder height of 'Quest' is significantly greater than that of 'Telluride' (124 cm. Vs 107 cm.) and its seed head width is greater (46.2 cm. VS 40.9 cm.). These figures are the overall averages for Trials 1 and 2 (Table 2), reported in Table 3.

Although the heads of 'Quest' are larger in terms of their diameters, the significant head weight advantage of 'Quest' over 'Telluride' is due primarily to its unusually fast maturity. The more rapid filling in of the heads of 'Quest' results in greater head density and weight at the time of harvest when the two varieties are grown for the same number of days. These differences in maturity are depicted in photographs comparing 'Quest' and 'Telluride' submitted in Exhibit D. Also included are photographs depicting these same relative maturity differences between 'Quest' and 'Del Rio', 'Winterhaven', 'Bubba', and 'Cibola'. The comparison varieties shown in these photos are estimated to take 5 to 8 days longer to reach maturity.

'Quest' is also different from 'Telluride' in that 'Telluride' contains the Dm18 gene and is resistant to CA pathotypes I, IIA, IIB, III, IV, V, and VI of lettuce downy mildew, whereas 'Quest' does not have the Dm18 gene and is susceptible to these pathotypes.

### **Supporting Evidence**

# for the Downy Mildew (Bremia Lactuca) ratings of 'Quest'

The PVP (#200300168) 'Telluride' states that Telluride is homozygous for Bremia R factor 18.

R 18 (also referred to as Dm 18 and R32) confers resistance to the following California pathotypes of Bremia:

Pathotypes I, IIB, and III: California Iceberg Lettuce Ann. Report. April 1, 1994-March 31<sup>st</sup>, 1995.

Pathotypes IIB, III, IV, and V: California Iceberg Lettuce Ann. Report. April 1, 1998- March 31<sup>st</sup>, 1999.

Pathotypes VI and VII: California Iceberg Lettuce Ann. Report. April 1, 2001–March 31<sup>st</sup>, 2002.

Results of Downy Mildew testing of 'Quest' by STA Laboratories, Gilroy, California, November, 2005.

Pathotype	Number of Seedling inoculated	Number of seedlings resistant	Number of seedlings susceptible
IIB	25	0	25
٧	25	0	25
VI	25	0	25
VII	25	0	25
VIII	25	0	25

NAME OF APPLICANT (S)

REPRODUCE LOCALLY. Include form number and date on all reproductions.

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U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE SCIENCE AND TECHNOLOGY **PLANT VARIETY PROTECTION OFFICE** BELTSVILLE, MD 20705

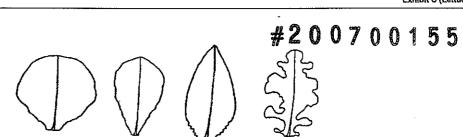
Exhibit C

# **OBJECTIVE DESCRIPTION OF VARIETY** Lettuce (Lactuca sativa L.)

NAME OF APPLICANT (S)	TEMPORARY OR EXPERIMENTAL DESIGNATION	VARIETY NAME
Pybas Vegetable Seed Co, Inc	PyB 3702	Quest
ADDRESS (Street and No. or RD No., City, State, Zip Code, and Country)		EOROFICATUSE ONLY
2330 A Street, Unit B		PVPO NUMBER
Santa Maria, Ca 93450	5	#200700155
	character in the boxes below. Place a zero in the first boxe the mean of an appropriate number (at least 20) of well sunt colors.	x (e.g. 0 9 9 or 0 9 ) when number
The Location of the Test Area is:	Color System Used:	
Santa Maria Valley, Cali	<i>C</i> .	al Society Colour Chart
SPECIFIC VARIETIES USED FOR COMPARISON AS ( your area. One of the comparison varieties must be the	CHECK VARIETIES IN THIS APPLICATION: Use standard most similar variety used in Exhibit B.	regional check varieties, which are adapted to
Application Variety (a1) Quest	Most Similar Variety (c1) Telluride	
Standard Regional Check Variety (c2)		
PLANT TYPE: (See List of Suggested Check Varieties)	es on Page 8)	7
01 = Cutting/Leaf 04 = Cos or Ror 02 = Butterhead 05 = Great Lake 03 = Bibb 06 = Vanguard 6	s Group 08 = Eastern (Ithaca) Group 11 = Other (St	pecify)
(a1) 07	(c1) 07 (c2)	
2. SEED:  (a1) 2 (c1) 2   COLOR (a1)  1 = White (Silver Gray) 2 = Black (Grey Brown) (c1) 3 = Brown (Amber) (c2)	LIGHT DORMANCY 1 = Light Required 2 = Light Not Required (c1) (c2)	HEAT DORMANCY 1 = Susceptible == 2 = Not Susceptible
3. COTYLEDON TO FOURTH LEAF STAGE: NOTE: Picondition	rovide a color photograph or photocopy of the fourth leaf from s.	om 20 day-old seedling grown under optimal
SHAPE OF COTYLEDONS: 1 = Broad (a1)	$ \begin{array}{ccc} 2 &= & & & & & & & & \\ 2 & & & & & & & \\ & & & & & & & \\ & & & & $	
SHAPE OF FOURTH LEAF: (a1)	3 (c1) 3 (c2)	
		9

3. COTYLEDON TO FOURTH	LEAF STAGE:	(continued)
------------------------	-------------	-------------











1 = Trans	sverse oval 2 = R	ound 3 = Oval	4 = Elongated 5 = Lanc	eolate 6 = Pinnately lobed	
LENGTH/WIDTH INDEX OF FOURT	H LEAF: L/W x 10				
	(a1)	12	(c1) 12	(c2)	
	ntire enate/Gnawed ely Dentate	4 = Moderately I 5 = Coarsely De 6 = Incised	Dentate 7 = Lobed ntate 8 = Other (Sp	pecify)	_
	(a1)	4	(c1) <b>4</b>	(c2)	
BASAL MARGIN: (Use the options for	or Apical Margin abo	ve)			
	(a1)	5	(c1) <b>5</b>	(c2)	
UNDULATION: 1 = Flat	2 = Slight	3 = Medium	4 = Marked		
	(a1)		(c1)	(c2)	
GREEN COLOR: 1 = Yellow Green 2 = Light Green		dium Green k Green	5 = Blue Green 6 = Silver Green	7 = Grey Green	
	(a1)	3	(c1) 3	(c2)	
ANTHOCYANIN:					
DISTRIBUTION:	1 = Absent 2 = Margin Only	3 = Spotted 4 = Throughout	5 = Other (Specify)		
	(a1)		(c1)	(c2)	
CONCENTRATION	1 = Light	2 = Moderate	3 = Intense		
	(a1)		(c1)	(c2)	
ROLLING:	1 = Absent	2 = Present			
	(a1)		(c1) [	(c2)	
CUPPING:	1 = Uncupped	2 = Slight	3 = Markedly		
	(a1)		(c1) [	(c2)	
REFLEXING:	1 = None 2 =	= Apical Margin	3 = Lateral Margins		
	(a1)		(c1)	(c2)	

											E	xhibit	C (Lettu
	TURE LEAVES (Observe Ha		•					#2	<u>ሰ</u> ሰ	7	0	<b>n</b> 4	15
NOTE	: Provide color photo of a h	arvest-mature leaf wh	ich accurate	ly shows colo	r and mar	gin characteris	stics.	# 6	V	9 #	V	V !	
M	ARGIN:					•							
	(deepest penetration	1 = Absent/Shallow (	Dark Green I	Boston)	2 = Mod	derate (Vangua	ard) 3 = [	Deep (Gr	eat La	kes 6	59)		
	of the margin)	(a1)	2		(c1)	2	(c2)						
:	INDENTATION: (Finest d	livisions of the margir	)										
		1 = Entire (Dark 2 = Shallowly D 3 = Deeply Den	entate (Great	t Lakes 65)		enate (Vangua her (Specify) _						_	
•		(a1)	4		(c1)	4	(c2)						
	UNDULATIONS OF THE APICAL MARGIN:	1 = Absent/Sligh 3 = Strong (Gree	it (Dark Gree at Lakes 659)	n Boston) 2 )	= Modera	te (Vanguard)							
		(a1)	2		(c1)	2	(c2)						
	GREEN COLOR:	1 = Very Light G 2 = Light Green		3 = Mediur 4 = Dark G	n Green (Green (Van	Great Lakes) guard)	5 = Very Dar 6 = Other (S						
٠.		(a1)	3		(c1)	3	(c2)						
AN1	THOCYANIN:												
	DISTRIBUTION:	1 = Absent 2 = Margin Only	(Big Boston)	3 = Spott 4 = Throu	ed (Califor ghout (Pr	rnia Cream Bu ize Head)	tter) 5 = Othe	er (Specit	y)				
		(a1)			(c1)		(c2)		],				
	CONCENTRATION:	1 = Light (Iceber	g)	2 = Moderat	e (Prize H	lead) 3 = In	tense (Ruby)				•		
		(a1)			(c1)		(c2)		]				
	SIZE:	1 = Small	·	2= Medium		3 = La	arge						
		(a1)	3		(c1)	2	(c2)		]				
	GLOSSINESS:	1 = Dull (Vangua	rd)	2 = Modera	te (Salina	s) 3	3 = Glossy (Grea	at Lakes)	ı 				
		(a1)	02		(c1)	02	(c2)						
· .		osent/Slight	2 = Mode		3	= Strong							
		Salinas) (a1)	(Var	nguard)	(c1)	(Prize Head	d) (c2)						
	LEAF THICKNESS: 1	= Thin (a1)	2 = Intern	nediate	3 (c1)	= Thick	(c2)		Ī				
	TDICUONES: 4 = 51				(01)		(02)	<u></u>	i				
	TRICHOMES: 1 = Ab	sent (Smooth) (a1)	2 = Prese	nt (Spiny)	(c1)	01	(c2)						

(a1) 49 cm (c1) 46 cm (c2) cm

SPREAD OF FRAME LEAVES:

					extract o frome
5. PLANT: (continued)					
HEAD DIAMETER: (Market Trim	med with Single Cap I	.eaf)		# <b>ZU</b> U	700155
	(a1)	13 cm	(c1) / 3 cm	(c2)cm	
HEAD SHAPE:	1 = Flattened	3 = Spherica	al 5 = Non-Heading		
6 = Other (Specify)	2 = Slightly Fla	ttened 4 = Elongate	•		
	(a1)	02	(c1) 03	(c2)	
LICAD OLZE OLAGO.	4 0				
HEAD SIZE CLASS:	1 = Small	2 = Medium	3= Large		
	(a1)	03	(c1) UZ	(c2)	
HEAD PER CARTON:					
	(a1)	24	(c1) 2 4	(c2)	
·				· · · · · · · · · · · · · · · · · · ·	
HEAD WEIGHT:		1 1 1 1			
	(a1)	641 g	(c1) 517	g. (c2)	g.
HEAD FIRMNESS:	1 = Loose	2 = Moderate	3= Firm	4 = Very Firm	
	(a1)	4	(c1) <u>3</u>	(c2)	
ANTONIO DE LA CONTRACTOR DE LA CONTRACTO				` ' <del>L</del>	
6. BUTT:					
SHAPE:	1 = Slightly Con	<del></del>			
	(a1)	2	(c1) 3	(c2)	
MIDRIB:	1 = Flattened (S	Salinas) 2 = Mod	derately Raised 3 = Prom	ninently Raised (Great Lak	es 659)
	(a1)		(c1)	(c2)	<b>,</b>
			` '		
7. CORE:					
DIAMETER AT BASE OF HE	:AD: (a1)	32 mm	(c1) 3 } mm	(c2) mn	n
		912	( ) [0] 1		
RATIO OF HEAD DIAMETER	R/CORE DIAMETER:				٦
	(a1)	04.2	(c1) 0 4 2	(c2)	
CORE HEIGHT FROM BASE	OF HEAD TO APEX				
	(a1)	49 mm	(c1) 4 0 mm	(c2) mn	า
8. BOLTING: (Give First Water Da	04-25-0	Ø6 mar = 1			
o. Bozimo. (Give i list vyate: D.	ate. O J Sto G	car	t water Date is the date seed fin In and often does equal the plant	st receives adequate mois ting date.	ture to germinate. This
NUMBER OF DAYS FROM FIR	ST WATER DATE TO	SEED STALK EMER	GENCE: (summer conditions)		
	(a1)	070	(c1) 072	(c2)	]
POLITING CLASS.	4 - 57 - 40	<u> </u>		<u> </u>	
BOLTING CLASS:	1 = Very Slow 2 = Slow	3 = Medium 4 = Rapid	5 = Very Rapid		
	(a1)	3	(c1) 3	(c2)	
tipious os serves serves		_ <del>_</del>	Accidental		
HEIGHT OF MATURE SEED ST	•	الملما	<del>[ ; ]   []</del>	<del>  </del>	1
12	(a1)	124 cm	(c1) / 07 cm	(c2)	cm

8. BOLTING:	(continued)				ŕ					,, 0, 0, 0	cany ,	A.A	AI.	
SPREAD OF	BOLTER PL	ANT: (At wide	est point)							#200		J (	100	0
			(a1)	46	cm	(c1)	4	cm	(c2)	cm				
BOLTER LE	AVES:	1 = Straight	2 = C	urved										
			(a1)	2		(c1)	2	-	(c2)					
MARGIN:	1 = Entire	e 2 = Dentate												
			(a1)	2		(c1)	2		(c2)					
COLOR:	1 = Light	Green 2	= Medium Gre	en 3 = D	ark Green							•		
			(a1)	2		(c1)	2		(c2)					
BOLTER HAI	BIT:													
TERMINAL	- INFLORES	CENCE: 1:	= Absent	2 = Pi	esent									
			(a1)	2		(c1)	2		(c2)					
LATERAL S	<b>SHOOTS</b> :		1 = At	sent	2 = Present	٠								
			(a1)	2		(c1)	2		(c2)					
BASAL SIC	DE SHOOTS:		1 = Ab	sent	2 = Present									
			(a1)			(c1)	1		(c2)					
SEASON	1	ICATION VAI		MO	ST SIMILAR VA	RIETY		STANDARD RI	EGIONA	AL CHECK VAR	IETY			
Spring	76			82			-	,-u,-		No. of Days <sup>1</sup>				
Summer								7			+-			
Fall			-					· · · · · · · · · · · · · · · · · · ·			1			••••
Winter											-			
First Water Date  Give Planting Dat		-4: (-\.												
			Calif	2 P1/	unted: 04	lial	9722		tered	4/01/0	ж 206			
				9 1 10	WITCO - OT	1111	200	$\sigma$ $\omega \alpha$	revec	MAHAL	<u> </u>			
	mina_													
Summer:	MITA.										<del></del> .			
Summer:	in the second										<del></del> .			
Summer:														
Summer: _ Fall: _ Vinter: _												e.		
Summer: Fall: Vinter: O. ADAPTATION PRIMARY RI	N: EGIONS OF A		N (tested and	***************************************						·		÷		
Summer: Fall: Winter:	N: EGIONS OF A	ADAPTATIOI		***************************************								*		
Summer:  Fall:  Vinter:  O. ADAPTATION  PRIMARY RI  O = Not Teste	N: EGIONS OF A	ADAPTATIOI t Adapted	<b>N</b> (tested and	***************************************	apted):		0	Northeast				÷-		
Summer: Fall: Vinter:  0. ADAPTATION PRIMARY RI 0 = Not Teste	N: EGIONS OF A ed 1 = Not est (CA and/o	ADAPTATIOI t Adapted	N (tested and 2 = Adapted	proven ad	apted): oast		0	Northeast Other (Specify	)			÷-		

10. ADAPTATION: (Continued)					
SEASON:					#200700155
Spring (Area West Co		<u>a</u>	Fall (Area	Akizona	)
2 summer (Area west	coast	0	Winter (Area		)
O GREENHOUSE: 0 = No	ot Tested	1 = Not Adapted	4 2-	Adapted	
SOIL TYPE: 1 = Mi		2 = Organic		Both	
		Z - Organic	J-	- Dour	· · · · · · · · · · · · · · · · · · ·
11. VIRAL DISEASES:					
1 = Immune 3 = Resistant	5 = Moderately	y Resistant/Mode	erately Susceptible	7 = Susceptible	9 = Highly Susceptible
Big Vein	(a1)		(c1) <u>7</u>	(c2)	0=not tested
Lettuce Mosaic	(a1)	길	(c1) O	(c2)	OTIDI TESTEL
Cucumber Mosaic	(a1)	2	(c1) O	(c2)	
Tomato Bushy Stunt, cause of diebac	ck (a1)	<u> </u>	(c1) <u>(</u>	(c2)	
Turníp Mosaic	(a1)	<u>)</u>	(c1)	(c2)	
Beet Western Yellows	(a1)	<u>)</u>	(c1) O	(c2)	
Lettuce Infectious Yellows	(a1)		(c1) O	(c2)	
Other (Specify)	(a1)	3	(c1)	(c2)	
12. FUNGAL/BACTERIAL DISEASES:			-A		
1 = Immune 3 = Resistant	5 = Moderately	/ Resistant/Mode	rately Susceptible	7 = Susceptible	9 = Highly Susceptible
Corky Root Rot	(21)	_	(-4)	•	
(Races:		3	<sup>(c1)</sup> 3	(c2)	0=not tested
Downy Mildew 118, V - VIII	(a1)	7	(c1) [3]	(02)	
(Races: I, IA, IB, II, IV, V,	<u></u>	<u> </u>	(61)	(c2)	
Powdery Mildew	(a1) <u>C</u>	<u> </u>	(c1) O	(c2)	
Sclerotinia Drop	(a1)	<u> </u>	(c1)	(c2)	
Bacterial Soft Rot (Pseudomonas spp. and others)	(a1) <u>(</u>	)]	(c1)	(c2)	
Botrytis (Grey Mold)	(a1)		(c1) O	(c2)	
Verticillium Wilt	(a1)	2	(c1) O	(c2)	
Bacterial Leaf Spot	(a1) C		(c1) O	(c2)	
Anthracnose	(a1) C	j	(c1) O	$\overline{}$	
Other (Specify)	(a1) (a1)	Ĭ	(c1) O	(c2)	
13. INSECTS:	(4.)		(01) [0]	(62)	
•	5 - Madaustok	Design states			w
1 = Immune 3 = Resistant	5 = Moderately	Resistant/Model	rately Susceptible	7 = Susceptible	9 = Highly Susceptible
Cabbage Loopers	(a1) O		(c1)	(c2)	o= not tested
Root Aphids	(a1) O		(c1) D	(c2)	Č
Green Peach Aphid	(a1)		(c1)	(c2)	
Lettuce Aphid	(a1)		(c1) O	(c2)	
Pea Leafminer	(a1)		(c1)	(c2)	
U Other (Specify)	(a1) [ <i>0</i> ]		(c1)	(c2)	

14.	PHYSIOLOGICAL STRESSES:				#20070015
	1 = Immune 3 = Resistant	5 = Moderately Resistar	t/Moderately Susceptible	7 = Susceptible	9 = Highly Susceptible
	Tipburn	(a1) <u>3</u>	(c1) <b>3</b>	(c2)	o=untested
	Heat	(a1)	(c1)	(c2)	O = Wive sico
	Drought	(a1)	(c1)	(c2)	
	Cold	(a1) Ø	(c1) O	(c2)	
	Salt	(a1) O	(c1)	(c2)	
• .	Brown Rib (Rib Discoloration, Rib Blight)	(a1) O	(c1) O	(c2)	
	Other (Specify)	(a1) O	(c1) O	(c2)	
5.	POST HARVEST STRESS:				
	1 = Immune 3 = Resistant	5 = Moderately Resistar	t/Moderately Susceptible	7 = Susceptible	9 = Highly Susceptible
	Pink Rib	(a1) O	(c1)	(c2)	0=untested
	Russet Spotting	(a1)	(c1) O	(c2)	Of Muches
	Rusty Brown Discoloration	(a1)	(c1)	(c2)	
	Internal Rib Necrosis (Blackheart, Grey Rib, Grey Streak)	(a1) O	(c1) O	(c2)	
	Brown Stain	(a1) O	(c1) O	(c2)	

17. COMMENTS:

#### SUGGESTED CHECK VARIETIES

#200700155

TYPE

Cutting/Leaf

2 Butterhead

3 Bibb

4 Cos or Romain

5 Great Lakes Group

6 Vanguard Group

7 Salinas Group8 Eastern Group

9 Stem

10 Latin

CHECK VARIETY Waldmann's Green Dark Green Boston Bibb

Parris Island

Great Lakes 659-700

Vanguard Salinas Ithaca Celtuce Little Gem

#### **REFERENCES**

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Davis, R.M., K.V. Subbarao, R.N. Raid, and E.A. Kurtz, 1997. "Compendium of Lettuce Diseases". APS Press, St. Paul, MN.

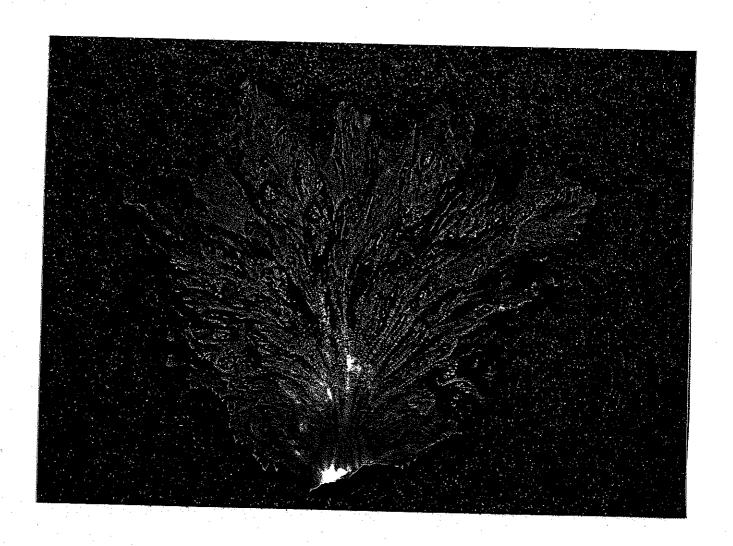
Michelmore, R.W., J. M. Norwood, D.S. Ingram, I.R. Crute and P. Nicholson. 1984. "The interitance of virulence in Bremia lactucae to match resistance factors 3, 4, 5, 6, 8, 9, 10, and 11 in lettuce (Lactuca sativa)", Plant Pathology 32:176-177.

Norwood, J.M., R.W. Michelmore, I.R. Crute and D.S. Ingram. 1983. "The inheritance of specific virulence of Bremia lactucae (Downy Mildew) to match R-factors 1, 2, 4, 6, and 11 in lettuce (Lactuca sativa)". Plant Pathology 32:176-177.

Rodenburg, C.M., et al., 1960. "Varieties of Lettuce. An International Monograph", Instituut voor de Verdeling van Tuinbouwgewassen (IVT), Wageningen, NL.

Ryder, E.J., 1999, Lettuce, Endive, and Chicory, CABI Publications, Wallingford, UK.

PVP Application: Mature leaf of QUEST Application filed by: Pybas Vegetable Seed Company Photo taken: 08/25/2006; leaf 65 days old.



February 19<sup>th</sup>, 2007

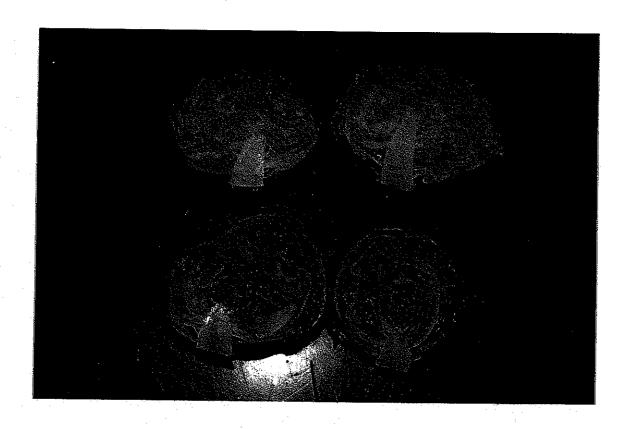
Photograph of 20 day old 4<sup>th</sup> leaves of 'Quest'.



PVP Application for: QUEST Photos comparing maturity of QUEST and TELLURIDE: Grower: Betteravia Farms, Santa Maria, CA. Seeded: 06-20-2006; Harvested:

08/25/2006.

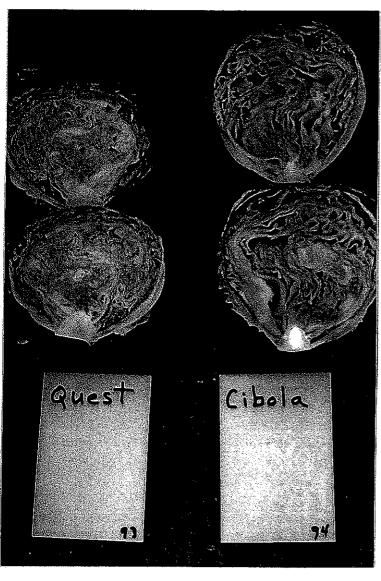
Quest is in the top row. Telluride is in the bottom row.



### EXHIBIT D

PVP Application for: QUEST

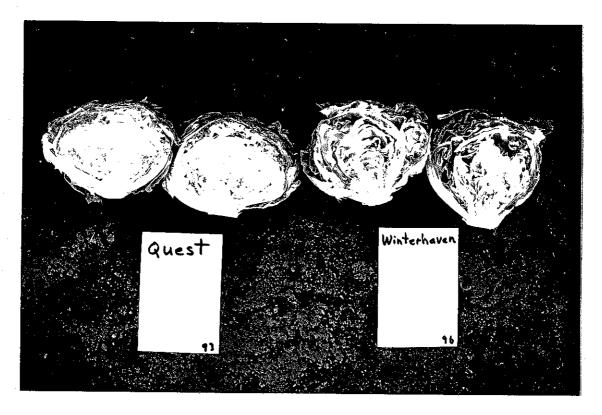
Photos comparing maturity of QUEST with DEL ORO and CIBOLA: Grower: Harrison Farming, Yuma, AZ. Seeded: 10-12-2006; Harvested: 01/18/2007.





PVP Application for: QUEST

Photos comparing maturity of QUEST with WINTERHAVEN and BUBBA: Grower: Harrison Farming, Yuma, AZ. Seeded: 10-12-2006; Harvested: 01/18/2007.



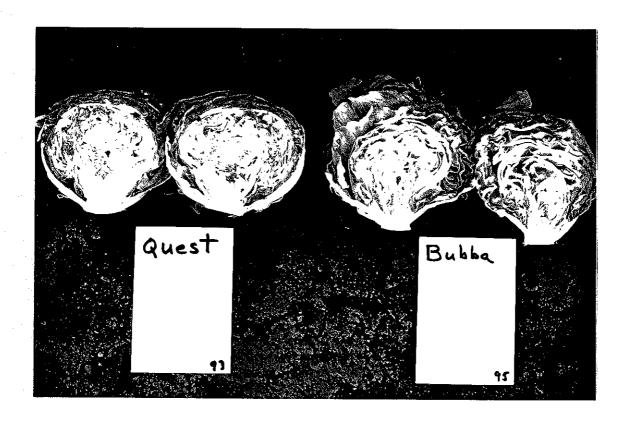


Table 1. Agronomic characteristics of two varieties of *Lactuca sativa* L. grown in two locations, Trial 1 and Trial 2, in 2006. Trials were planted in a randomized complete block design with four replications. All data were analyzed using a Student's t-Test.

Core Height (mm)	34.9	31.9	5.4	2.8	0.007
Core Diameter (mm)	31.8	30.3	2.5	3.0	0.004
Head Weight (g)	617.0	474.0	119.0	5.9	<.0001
Head Diameter (cm)	13.1	12.3	6.0	4.2	<.0001
Frame Diameter (cm)	47.8	40.8	2.9	12.1	<.0001
Trial 1ª.	Quest	Telluride	Standard Deviation	t-value	P-value

Core Diameter (mm) Core Height (mm)	31.2 61.0	30.7	3.0 11.7	0.9	0.036 <.0001
ĺ				-	
Head Weight (g)	0.099	552.0	105.0	5.6	<.0001
Head Diameter (cm)	13.5	13.0	0.7	3.8	0.0002
Frame Diameter (cm)	20.7	50.2	2.2	1.2	0.22
Trial 2 <sup>b</sup> :	Quest	Telluride	Standard Deviation	t-value	P-value

<sup>a</sup>: Trial 1: Grower: Betteravia Farms, 603 West, Santa Maria, CA. Seeded: 04-19-2006, Watered: 04-21-2006, Harvested:07-06-2006 (76 days). Sample Size: N=48; df=94; t(0.05)=1.98; t(0.01)=2.63.

<sup>b</sup>: Trial 2: Grower: Betteravia Farms, 1605, Santa Maria, CA. Seeded: 06-20-2006, Watered: 06-21-2006, Harvested: 08-25-2006 (65 days). Sample size: N=60; df=118; t(0.05)=1.98; t(0.01)=2.61.

Table 3. Agronomic data combined from two trials for two varieties of Lactuca sativa L. All data was analyzed using a Student's t-Test.

Combined Trials <sup>a</sup>	Frame Diameter (cm)	Head Diameter (cm)	Head Weight (g)	Core Diameter (mm)	Core Height (mm)	Height of Bolter Width of Seed (cm) Head (cm)	Width of Seed Head (cm)
Quest	49.4	13.3	641	31.5	49.4	124.0	46.2
Telluride	46.0	12.7	517	30.5	40.0	107.0	40.9
Standard Deviation	4.3	8.0	115	2.8	14.1	6.5	5.6
t-value	5.9	5.4	7.9	2.5	4.9	13.1	4.7
P-value	<0.0001	<0.0001	<0.0001	0.013	<0.0001	<0.0001	<0.000

A. Data in this table represents the combined values for data contained in tables 1 and 2.

Table 2. Seeder height and seed head width for two *Lactuca sativa* L. varieties, Quest and Telluride. Plants were grown in 2005 and 2006. Data were analyzed with a Student's t-test.

	(cm)	3				
Trial 2 <sup>b</sup>	Seed Head Width (cm)	43.0	38.9	3.2	4.6	<0.0001
Tr	Seeder Height (cm)	122	109	5.1	4.0	<0.0001
Trial 1ª	Seed Head Width (cm)	49.4	42.9	6.2	3.7	0.0006
Tri	Seeder Height (cm)	125	104	7.4	10.0	<0.0001
•		Quest	Telluride	Standard Deviation	t-value	P- value

 $^{8}$ : Trial 1: Buttonwillow, CA. Seeded: 05-10-2005; Measured 08-15-2005. Sample size: N=25;  $t_{(0.05)}$ =2.01;  $t_{(0.01)}$ =2.68.

b. Trial 2: Buttonwillow, CA. Seeded: 04-24-2006; Measured 08-11-2006. Sample size: N=25; t<sub>(0.05)</sub>=2.01; t<sub>(0.01)</sub>=2.68.

REPRODUCE LOCALLY. Include form number and edition date on all	reproductions.	ORM APPROVED - OMB No. 0581-0055			
U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE	Application is required in order to det certificate is to be issued (7 U.S.C. 24	ermine if a plant variety protection			
EXHIBIT E STATEMENT OF THE BASIS OF OWNERSHIP	confidential until the certificate is issued (7 U.S.C. 2426).				
1. NAME OF APPLICANT(S)	Pybas Vegetable Seed Company, Inc.				
	PYB 3702	Quest			
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP, and Country)	5. TELEPHONE (Include area code)	6. FAX (Include area code)			
2330 A Street, Unit B Santa Maria, CA 93455	(805) 922-4624	(805) 928-0293			
,	7. PVPO NUMBER				
8. Does the applicant own all rights to the variety? Mark an "X" in the	#	200700155			
9. Is the applicant (Individual or company) a U.S. national or a U.S. b.  10. Is the applicant the original owner?	ased company? If no, give name of co				
a. If the original rights to variety were owned by individual(s), is (a YES  b. If the original rights to variety were owned by a company(ies),	is (are) the original owner(s) a U.S. bas	ed company?			
11. Additional explanation on ownership (Trace ownership from origin Quest was developed by Keith Trammell, plant breeder for Pybas		verse for extra space if needed):			
PLEASE NOTE:					
Plant variety protection can only be afforded to the owners (not license	ees) who meet the following criteria:				
If the rights to the variety are owned by the original breeder, that penational of a country which affords similar protection to nationals of	rson must be a U.S. national, national o the U.S. for the same genus and specie	f a UPOV member country, or			
<ol><li>If the rights to the variety are owned by the company which employs nationals of a UPOV member country, or owned by nationals of a co- genus and species.</li></ol>	ed the original breeder(s), the company ountry which affords similar protection to	must be U.S. based, owned by a nationals of the U.S. for the same			
3. If the applicant is an owner who is not the original owner, both the o	riginal owner and the applicant must me	eet one of the above criteria.			
The original breeder/owner may be the individual or company who dired Act for definitions.	ected the final breeding. See Section 41	(a)(2) of the Plant Variety Protection			
····					

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is o581-0055. The time required to complete this information collection is estimated to average 0.1 hour per response, including the time for reviewing the instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

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> U.S. DEPARTMENT OF AGRICULTURE **AGRICULTURAL MARKETING SERVICE** SCIENCE AND TECHNOLOGY PLANT VARIETY PROTECTION OFFICE BELTSVILLE, MD 20705

**EXHIBIT F** 

	DECLARATION REGARDING DEPOSIT	
NAME OF OWNER (S)	ADDRESS (Street and No. or RD No., City, State, and Zip Code and Country)	TEMPORARY OR EXPERIMENTAL DESIGNATION
Pybas Vegetable Seed Company, Inc.	2330 A Street, Unit B	PYB 3702
	Santa Maria, CA 93455	VARIETY NAME Quest
NAME OF OWNER REPRESENTATIVE (S)	ADDRESS (Street and No. or RD No., City, State, and Zip Code and Country)	FOR OFFICIAL USE DRUY.
Shawna Bushey or Keith Trammell	2330 A Street, Unit B Santa Maria, CA 93455	#200700155

I do hereby declare that during the life of the certificate a viable sample of propagating material of the subject variety will be deposited, and replenished as needed periodically, in a public repository in the United States in accordance with the regulations established by the Plant Variety Protection Office.

Date

2-5-07